

ABSTRACT

A method and apparatus for manufacturing unitary concrete blocks includes a form that defines the desired shape of the unitary concrete block. A form loading station delivers a lightweight concrete composite into the form. A station conveyor conveys the form from the form loading station through a curing oven. In the curing oven, the composite-filled form is cured into a unitary concrete block. The station conveyor conveys the form to a block removal station that removes the unitary concrete block from the form. The station conveyor returns the form to the form loading station to manufacture more unitary concrete blocks. For increased production, multiple forms can be conveyed between stations simultaneously. Additionally, a metering ingredient assembly may be used to deliver appropriate amounts of desired ingredients to a mixer for producing the lightweight concrete composite.